



Express Mail No.  
EV133106815US

VPI/95-09 DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OCT 15 2003

TECH CENTER 1600/2900

Examiner : Marjorie A. Moran  
Group Art Unit : 1631  
Applicant(s) : David Armistead et al.  
Application No. : 09/431,469 Confirmation No.: 8756  
Filed : November 1, 1999  
For : MOLECULES COMPRISING A CALCINEURIN-  
LIKE BINDING POCKET AND ENCODED DATA  
STORAGE MEDIUM CAPABLE OF GRAPHICALLY  
DISPLAYING THEM

New York, New York  
October 3, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97, applicants  
make of record the following documents\*:

OTHER DOCUMENTS

Balbes, L.M., et al., "A Perspective of Modern Methods in  
Computer-Aided Drug Design," in "Reviews in Computational  
Chemistry," K.B. Lipkowitz and D.B. Boyd, Eds., VCH  
Publishers, New York, 5: 337-379 (1994).

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\* A completed Form PTO-1449 listing these documents is  
attached hereto.

10/10/2003 CCHAU1 00000102 061075 09431469

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Bartlett, P.A., et al., "CAVEAT: A Program to Facilitate the Structure-Derived Design of Biologically Active Molecules," in *"Molecular Recognition in Chemical and Biological Problems,"* S.M. Roberts, Ed., Royal Society of Chemistry, Special Publication No. 78: 182-196 (1989).

Böhm, H.-J., "The Computer Program LUDI: A New Method for the De Novo Design of Enzyme Inhibitors," *J. Comp. Aid. Molec. Design*, 6: 61-78 (1992).

Cohen, N.C., et al., "Molecular Modeling Software and Methods for Medicinal Chemistry," *J. Med. Chem.*, 33: 883-894 (1990).

Eisen, M.B., et al., "HOOK: A Program for Finding Novel Molecular Architectures that Satisfy the Chemical and Steric Requirements of a Macromolecule Binding Site," *Proteins Struct. Funct. Genet.*, 19: 199-221 (1994).

Gillet, V., et al., "SPROUT: A Program for Structure Generation," *J. Comp. Aid. Molec. Design*, 7: 127-153 (1993).

Goodford, P.J., "A Computational Procedure for Determining Energetically Favorable Binding Sites on Biologically Important Macromolecules," *J. Med. Chem.*, 28: 849-857 (1985).

Goodsell, D.S., and Olson, A.J., "Automated Docking of Substrates to Proteins by Simulated Annealing," *Proteins Struct. Funct. Genet.*, 8: 195-202 (1990).

Guida, W.C., "Software for Structure-Based Drug Design," *Curr. Opin. Struct. Biology*, 4: 777-781 (1994).

Kuntz, I.D., et al., "A Geometric Approach to Macromolecule-Ligand Interactions," *J. Mol. Biol.*, 161: 269-288 (1982).

Lauri, G. and Bartlett, P.A., "CAVEAT: A Program to Facilitate the Design of Organic Molecules," *J. Comp. Aid. Molec. Design*, 8: 51-66 (1994).

Martin, Y.C., "3D Database Searching in Drug Design," *J. Med. Chem.*, 35: 2145-2154 (1992).

Miranker, A., and Karplus, M., "Functionality Maps of Binding Sites: A Multiple Copy Simultaneous Search Method," *Proteins Struct. Funct. Genet.*, 11: 29-34 (1991).

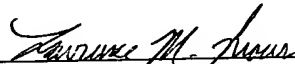
Meng, E.C., et al., "Automated Docking with Grid-Based Energy Evaluation," *Journal of Computational Chemistry*, 13: 505-524 (1992).

Navia, M.A. and Murcko, M.A., "Use of Structural Information in Drug Design," *Current Opinion Structural Biology*, 2: 202-210 (1992).

Nishibata, Y., and Itai, A., "Automatic Creation of Drug Candidate Structures Based on Receptor Structure. Starting Point for Artificial Lead Generation." *Tetrahedron*, 47: 8985-8990 (1991).

Applicants request that the cited documents be (1) fully considered by the Examiner during the course of examination of this application, and (2) printed on any patent issuing from this application. Applicants further request that a copy of form PTO-1449, as considered and initialed by the Examiner, be returned with the next communication.

Respectfully submitted,

  
James F. Haley, Jr. (Reg. No. 27,794)  
Attorney for Applicants  
Li Su (Reg. No. 45,141)  
Lawrence M. Brown (Reg. No. 52,660)  
Agents for Applicants  
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New York, New York 10020-1104  
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October 3, 2003

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P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL LETTER FOR SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT


Sir:

Transmitted herewith are an Information  
Disclosure Statement, Form PTO-1449 (in duplicate), and  
copies of references cited therein in the above-identified  
application. This Statement is submitted more than three  
months from the application filing date and after the  
mailing date of the first Office Action on the merits, but  
before the mailing date of either a final action under  
37 C.F.R. § 1.113, or a notice of allowance under 37 C.F.R.  
§ 1.311.

In accordance with 37 C.F.R. § 1.97, the fee of \$180, as set forth in 37 C.F.R. § 1.17(p), is required. The Director is hereby authorized to charge payment of said fee to Deposit Account No. 06-1075.

The Director is also hereby authorized to charge payment of any additional fees required in connection with the accompanying Information Disclosure Statement, or credit any overpayment, to Deposit Account No. 06-1075. A duplicate copy of this letter is transmitted herewith.

Respectfully submitted,

  
James F. Haley (Reg. No. 27,794)  
Attorney for Applicants  
Li Su (Reg. No. 45,141)  
Lawrence M. Brown (Reg. No. 52,660)  
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I hereby certify that this paper/fee is being deposited with the  
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service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Hon.  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Lillian Garcia

Enclosures:

Transmittal Letter (in duplicate);  
Supplemental Information Disclosure Statement;  
Form PTO-1449 (in duplicate);  
Copies of References Cited; and  
Postcard

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
VPI/95-09 DIVAPPLN. NO.  
09/431,469INFORMATION DISCLOSURE  
STATEMENT BY APPLICANTAPPLICANTS  
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## U.S. PATENT DOCUMENTS

TECH CENTER 1600/2900

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL	

	Balbes, L.M., et al., "A Perspective of Modern Methods in Computer-Aided Drug Design," in "Reviews in Computational Chemistry," K.B. Lipkowitz and D.B. Boyd, Eds., VCH Publishers, New York, 5: 337-379 (1994).
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.



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STATEMENT BY APPLICANT

	Eisen, M.B., et al., "HOOK: A Program for Finding Novel Molecular Architectures that Satisfy the Chemical and Steric Requirements of a Macromolecule Binding Site," <i>Proteins Struct. Funct. Genet.</i> , 19: 199-221 (1994).
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	Meng, E.C., et al., "Automated Docking with Grid-Based Energy Evaluation," <i>Journal of Computational Chemistry</i> , 13: 505-524 (1992).
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